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## TO THE

# MATHEMATICAL GAZETTE

No. 144, JAN. 1920—No. 155, DECEMBER 1921.

COMPILED BY MRS. W. J. GREENSTREET.

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2. Mathematical Notes.
3. Reviews and Short Notices of Books.
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### EXPLANATORY REMARKS.

It is not possible to give in full the subjects under the thousand or so sub-divisions which appear in the *Index*; but for the sake of those who do not possess the *Index* we give general titles with the principal letters. This will amply suffice for the majority of our readers.

#### MATHEMATICAL ANALYSIS.

- A. Elementary Algebra; theory of algebraic and transcendental equations; Galois groups; rational fractions; interpolation.
- B. Determinants; linear substitutions; elimination; algebraical theory of forms; invariants and covariants; quaternions; functional determinants; differential forms; equipollences and complex quantities; universal algebra.
- C. Principles of the differential and integral calculus; analytical applications; quadratures; multiple integrals; functional determinants; differential forms; differential operators.

- D.]** General theory of functions and its application to algebraical and circular functions ; infinite series and expansions, especially infinite products and continued fractions considered from the algebraical point of view ; Bernoulli's numbers ; spherical and analogous functions.
- E.** Definite integrals, and Eulerian integrals in particular.
- F.** Elliptic functions with their applications.
- G.** Hyperelliptic, Abelian, and Fuchsian functions.
- H.** Differential equations, and equations with partial differences ; functional equations ; equations with finite differences ; recurrent series.
- I.** Arithmetic and theory of numbers ; indeterminate analysis ; arithmetical theory of forms and of continued fractions ; the division of the circle ; complex, ideal, and transcendental numbers.
- J.** Combinatory analysis ; probabilities ; calculus of variations ; general theory of groups of transformations (omitting Galois groups (**A**), groups of linear substitutions (**B**), and groups of geometrical transformations (**P**) ; Cantor's theory of aggregates.
- K.** Geometry and Trigonometry ; projective and descriptive geometry ; perspective.
- L.** Conics, quadrics, etc., of the second degree.
- M.** Algebraic and transcendental curves, surfaces, etc.
- N.** Complexes and congruences ; connexes ; systems of curves, surfaces, etc. ; enumerative geometry.
- O.** Infinitesimal and kinematic geometry ; geometrical applications of the differential and integral calculus to the theory of curves, surfaces, etc. ; quadrature and rectification ; curvature ; asymptotes ; geodesics, lines of curvature ; areas and volumes ; minima surfaces ; orthogonal systems.
- P.** Geometrical transformations ; homography ; homology and affinity ; correlation and reciprocal polars ; birational and other transformations.
- Q.** Geometries ; generalities on geometry of  $n$  dimensions ; non-Euclidean geometry ; analysis situs ; the geometry of situation.

#### APPLIED MATHEMATICS.

- R.** General Mechanics ; kinematics ; statics, comprising centres of gravity and moments of inertia ; dynamics ; mechanics of solids ; friction ; attraction of ellipsoids.
- S.** Mechanics of fluids ; hydrostatics ; hydrodynamics ; thermodynamics.
- T.** Mathematical physics ; elasticity ; resistance of materials ; capillarity ; heat ; light ; electricity.
- U.** Astronomy ; celestial mechanics ; geodesy.
- V.** The philosophy and history of mathematics ; teaching of mathematics ; biographies of mathematicians.
- X.** Processes of calculation ; nomography ; graphic calculation ; planimeters instruments of various kinds ; games and recreations.

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